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(54) **SYSTEMS AND APPARATUSES FOR A BALLISTIC ARROW**

(71) Applicant: **William David Hand**, Houston, TX (US)

(72) Inventors: **Nathan Martin**, Pasadena, CA (US); **Manuel N. Rivera-Valdivia**, Houston, TX (US); **Andrew Sydow**, Bloomington, MN (US); **Kyle Valley**, Houston, TX (US)

(73) Assignee: **BALLISTIC ARROW TECH, LLC**, Houston, TX (US)

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(58) **Field of Classification Search**
CPC combination set(s) only.
See application file for complete search history.

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Primary Examiner — John Ricci
(74) *Attorney, Agent, or Firm* — Sutton McAughan Deaver PLLC

(57) **ABSTRACT**

Applicants have created improved systems and apparatuses for a ballistic arrow used to penetrate the surface of a target. The apparatus includes an arrow tip, a support feature, and a collar partially disposed about the support feature. The apparatus further includes a plurality of primary blades disposed radially about the support feature and a plurality of secondary blades partially disposed between the primary blades. The system includes an arrowhead and arrow shaft coupled to the arrowhead. The arrowhead includes an arrow tip, a support feature, and a collar partially disposed about the support feature. The arrowhead includes a plurality of arrow blades adapted to expand radially outward from the support feature upon impact of the arrow tip with a target. The apparatuses and systems described throughout this disclosure can improve the both the reliability and lethality of a ballistic arrow used to hunt game and other wildlife.

21 Claims, 6 Drawing Sheets